



DRILL STEM TEST REPORT

Prepared For: **Chesapeake Operating**

P.O. Box 18496
Oklahoma City OK 73154

ATTN: Wes Hansen

23-29S-33W Haskell

Elisaesser #2-23

Start Date: 2001.04.17 @ 21:45:00

End Date: 2001.04.18 @ 07:15:00

Job Ticket #: 13484 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chesapeake Operating
P.O. Box 18496
Oklahoma City OK 73154
ATTN: Wes Hansen

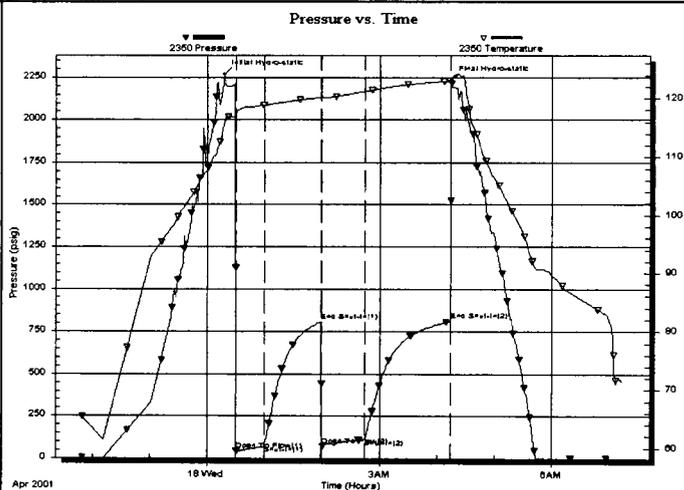
Ellsaesser #2-23
23-29S-33W Haskell
Job Ticket: 13484 **DST#: 1**
Test Start: 2001.04.17 @ 21:45:00

GENERAL INFORMATION:

Formation: **Kansas City B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:30:06
Time Test Ended: 07:15:00
Interval: **4640.00 ft (KB) To 4674.00 ft (KB) (TVD)**
Total Depth: 4674.00 ft (KB)
Hole Diameter: 7.78 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Blake Wallace
Unit No: 17
Reference Elevations: 2943.00 ft (KB)
2932.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: **2350** Inside
Press@RunDepth: 112.48 psig @ 4642.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.04.17 End Date: 2001.04.18 Last Calib.: 2001.04.16
Start Time: 21:49:37 End Time: 07:13:51 Time On Btm: 2001.04.18 @ 00:17:36
Time Off Btm: 2001.04.18 @ 04:14:36

TEST COMMENT: 1.5 cubic feet of gas @ 600# 200 ML recovery 1st opening- strong blow B.O.B in 1 min
IS- no blow back
2nd opening-strong blow B.O.B as soon as open
FS- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
148	2267.39	115.98	Initial Hydro-static
161	44.65	117.47	Open To Flow (1)
190	71.97	118.91	Shut-In(1)
249	808.63	120.24	End Shut-In(1)
251	73.87	120.38	Open To Flow (2)
295	112.48	121.25	Shut-In(2)
385	810.47	123.04	End Shut-In(2)
385	2233.03	123.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	5% gas 95% mud	0.61
124.00	10% water 20% mud 70% oily gas cut mud	0.61
3124.00	gas in pipe	40.90

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

Chesapeake Operating
P.O. Box 18496
Oklahoma City OK 73154
ATTN: Wes Hansen

Ellsaesser #2-23
23-29S-33W Haskell
Job Ticket: 13484 **DST#: 1**
Test Start: 2001.04.17 @ 21:45:00

Tool Information

Drill Pipe:	Length: 4065.00 ft	Diameter: 3.80 inches	Volume: 57.02 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 569.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 110000.0 lb
Drill Pipe Above KB:	24.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	4636.00 ft			String Weight: Initial 90000.00 lb
Depth to Bottom Packer:	ft			Final 92000.00 lb
Interval between Packers:	ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4611.00	
S.I. Tool	5.00			4616.00	
Sampler	3.00			4619.00	
HMV	5.00			4624.00	
Jars	5.00			4629.00	
Safety Joint	2.00			4631.00	
Packer	5.00			4636.00	26.00 Bottom Of Top Packer
Packer	4.00			4640.00	
Stubb	1.00			4641.00	
Perforations	1.00			4642.00	
Recorder	0.00	2350	Inside	4642.00	
P.O. Sub	5.00			4647.00	
Perforations	25.00			4672.00	
Recorder	0.00	13277	Outside	4672.00	
Bullnose	2.00			4674.00	38.00 Bottom Packers & Anchor

Total Tool Length: 64.00

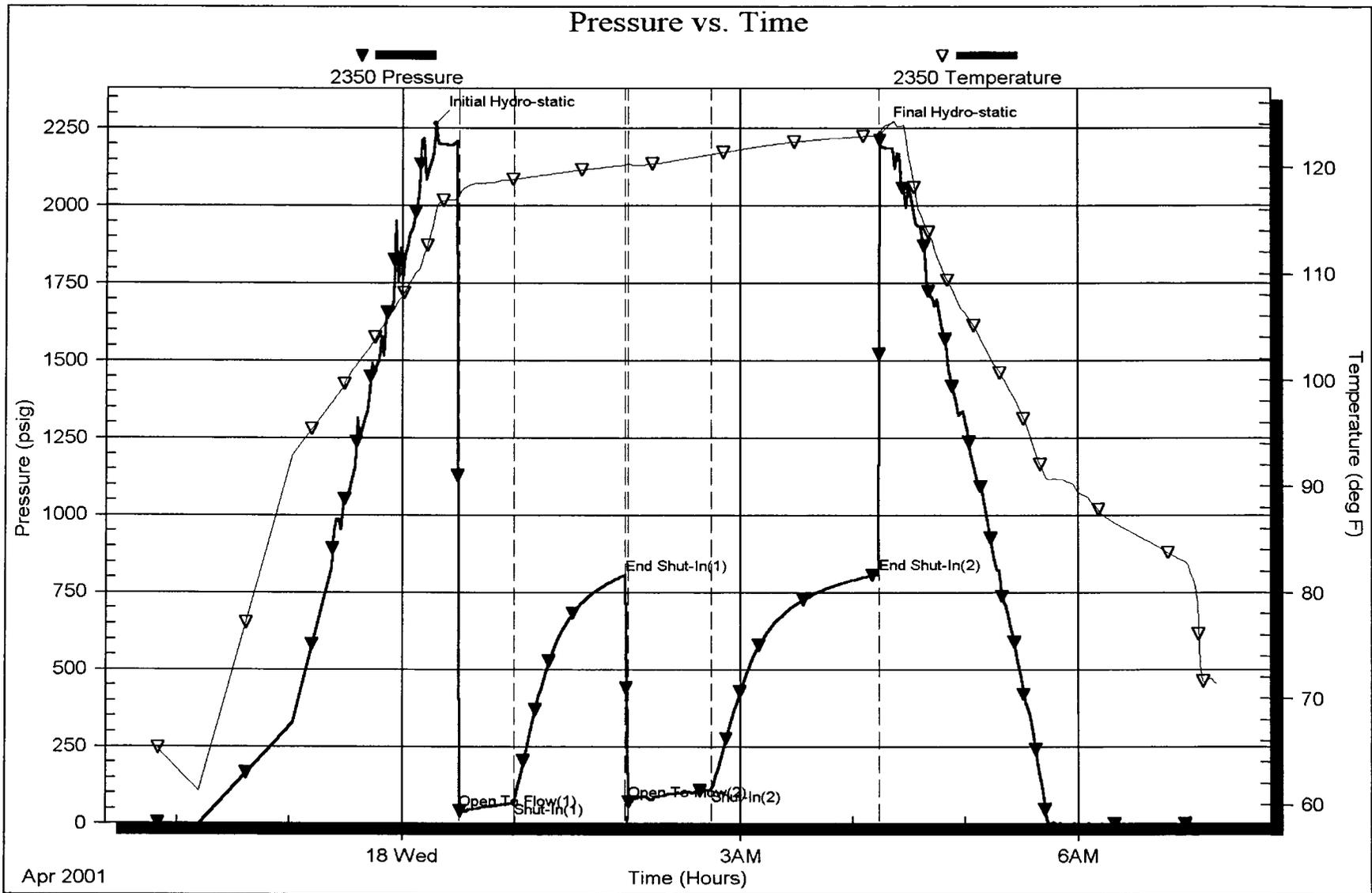
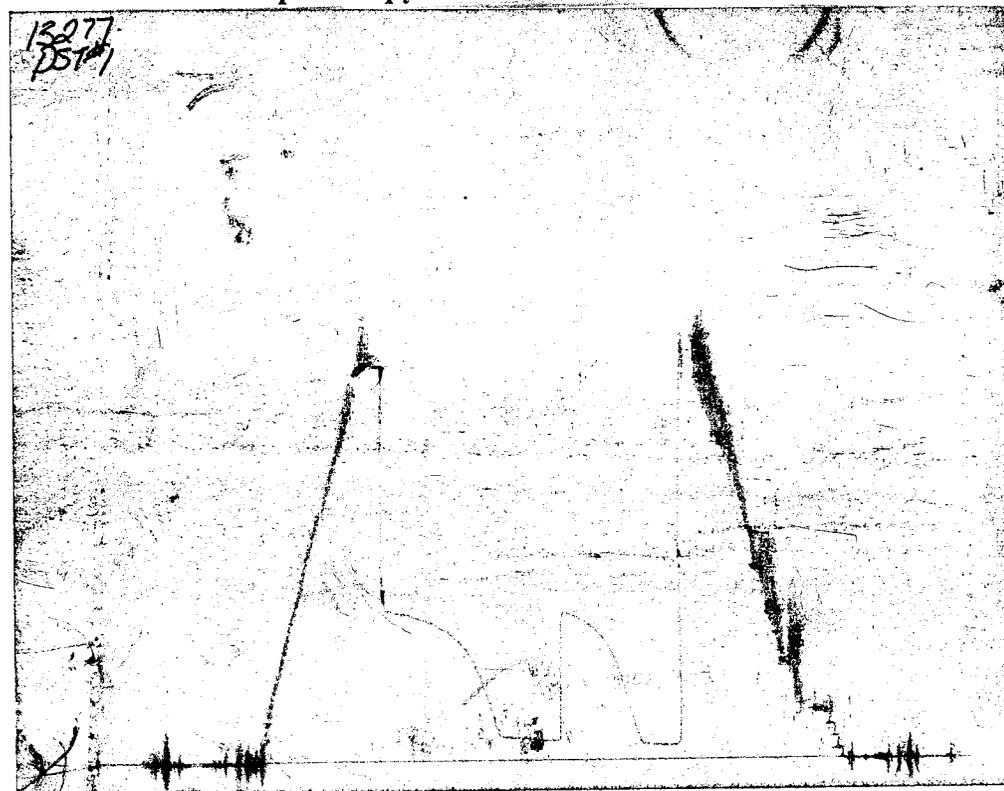


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 13484 Date 4-18-01
Company Name CHESAPEAKE OPERATING INC.
Lease ELLAESSER #2-23 Test No. #1
County HASKELL Sec. _____ Twp. _____ Rng. _____

SAMPLER RECOVERY

Gas 20% ML
Oil 75% GAS CUT mud w/ oil ML
Mud 2% ML
Water 3% ML
Other 200 ML RECOVERY ML
Pressure 6000 PSI
Total _____ ML

PIT MUD ANALYSIS

Chlorides _____ ppm.
Resistivity _____ ohms @ _____ F
Viscosity _____
Mud Weight _____
Filtrate _____
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 13484

Test Ticket

Well Name & No. <u>ELLSAESSER #2-23</u>	Test No. <u>#1</u>	Date <u>4-17-01</u>
Company <u>CHESAPEAKE OPERATING INC.</u>	Zone Tested <u>KANSAS CITY B</u>	
Address <u>P.O. Box 18496 Oklahoma City OK. 73154</u>	Elevation <u>2943'</u> KB	<u>2932'</u> GL
Co. Rep / Geo. <u>WES HANSEN</u>	Cont. <u>MURFIN #22</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>23</u> Twp. <u>29S</u> Rge. <u>33W</u> Co. <u>HASKELL</u> State <u>KS</u>		
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4640' - 4674'</u>	Initial Str Wt./Lbs. <u>90000</u>	Unseated Str Wt./Lbs. <u>90000</u>
Anchor Length <u>34'</u>	Wt. Set Lbs. <u>30000</u>	Wt. Pulled Loose/Lbs. <u>11000</u>
Top Packer Depth <u>4635'</u>	Tool Weight <u>1800</u>	
Bottom Packer Depth <u>4640'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4674'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>569'</u>
Mud Wt. <u>9.2</u> LCM <u>1</u> Vis. <u>40</u> WL <u>16.8</u>	Drill Pipe Size <u>4.5X-0</u>	Ft. Run <u>4065'</u>

Blow Description 1st opening - Strong blow B.O.B. in 1 min.
ISI - No blow back
2nd opening - Strong blow B.O.B. AS SOON AS OPEN
ISI - No blow back

Recovery — Total Feet <u>3372'</u>	GIP <u>3124'</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>124'</u> Feet Of <u>Gassy mud</u>	<u>5</u> %gas	<u>0</u> %oil	<u>95</u> %water
Rec. <u>124'</u> Feet Of <u>Gassy oil cut mud</u>	<u>35</u> %gas	<u>35</u> %oil	<u>10</u> %water
Rec. _____ Feet Of _____	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water
BHT <u>124</u> °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API			
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>2400</u> ppm System			

(A) Initial Hydrostatic Mud	AK-1 <u>2267</u> Alpine	PSI Recorder No. <u>2350</u>	T-On Location <u>7:30 pm</u>
(B) First Initial Flow Pressure	<u>44</u> PSI	(depth) <u>4642'</u>	T-Started <u>9:45 pm</u>
(C) First Final Flow Pressure	<u>71</u> PSI	Recorder No. <u>13277</u>	T-Open <u>12:29 AM</u>
(D) Initial Shut-In Pressure	<u>808</u> PSI	(depth) <u>4672'</u>	T-Pulled <u>4:14 AM</u>
(E) Second Initial Flow Pressure	<u>73</u> PSI	Recorder No. _____	T-Out <u>7:15 AM</u>
(F) Second Final Flow Pressure	<u>112</u> PSI	(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure	<u>810</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> Conventional <u>800</u>
(Q) Final Hydrostatic Mud	<u>2333</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
		Final Flow <u>45</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
		Final Shut-in <u>90</u>	Straddle _____
			Circ. Sub _____
			Sampler <input checked="" type="checkbox"/> <u>200</u>
			Extra Packer _____
			Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
			Mileage <input checked="" type="checkbox"/> <u>\$50.00</u>
			Other <u>23 hrs standby @</u>
			TOTAL PRICE \$ <u>\$1590.00</u>

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Approved By Wesley Hansen

Our Representative Beth L. Wallace

11:45

1,510.00